

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An injection device (1) especially for bone cement, comprising:

A) a syringe body (3) with a longitudinal axis (2), a front end (6), a connecting piece (8), disposed at the front end (6) and having a coaxial borehole (21), and a coaxial cavity (4);

B) an injection piston (5), which can be shifted coaxially in the cavity (4); and

C) a cannula (13), which can be connected with the connecting piece (8), with a central borehole (14) and rear end (15); wherein

D) the front end (6) of the syringe body (3) ~~having~~has a transition segment (22) with a coaxial borehole (9) with constant diameter, connecting the cavity (4) with the borehole (21) in the connecting piece (8); and wherein ~~characterized in that~~

E) the borehole (9) in the transition segment (22) and the central borehole (14) have the same cross-sectional area orthogonal to the longitudinal axis (2) at least at the rear end (15) of the cannula (13).

2. (Currently Amended) The injection device (1) of claim 1, ~~characterized in that~~wherein the central borehole (14) of the cannula (13) has a constant cross-sectional area q in the axial direction.

3. (Currently Amended) The injection device (1) of ~~claims~~claim 1 ~~or 2~~, ~~characterized in that~~wherein the central borehole (14) of the cannula has a cross-sectional area q and wherein the cavity (4) has a cross-sectional area Q , which is orthogonal to the longitudinal axis ~~3~~(2), and that the ratio of the cross sectional areas $q : Q$ is between 1 and 0.01 and preferably between 1 and 0.02.

4. (Currently Amended) The injection device (1) of ~~one of the claims~~ claim 1 ~~to 3~~, ~~characterized in that~~ wherein the central borehole (14) of the cannula has a cross-sectional area q and wherein the cavity (4) has a cross-sectional area Q , which is orthogonal to the longitudinal axis (2) and that the ratio of the cross sectional areas $q : Q$ is between 0.200 and 0.033 and preferably between 0.2 and 0.05.

5. (Currently Amended) The injection device (1) of ~~one of the claims~~claim 1, ~~to 4~~, ~~characterized in that~~wherein the borehole (9) has an internal thread (10) in the connecting piece (8).

6. (Currently Amended) The injection device (1) of claim 5, ~~characterized in that~~wherein the cannula (13) at the rear end (15) comprises means (16) for screwing ~~it~~the cannula (13) into the internal thread (10).

7. (Currently Amended) The injection device (1) of claim 6, ~~characterized in that~~wherein the means (16) are an external thread, which is complementary to the internal thread (10).

8. (Currently Amended) The injection device (1) of ~~one of the claims~~claim 1, 4 to 7, ~~characterized in that~~wherein the connecting piece (8) is constructed as a luer lock adapter without an internal conical element.

9. (Currently Amended) The injection device (1) of ~~one of the claims~~claim 5, to 8, ~~characterized in that~~wherein the diameter of the borehole (9) in the transition segment (22) and the geometry of the internal thread (10) in the connecting piece (8) correspond to those of a luer lock connection.

10. (Currently Amended) The injection device (1) of ~~one of the claims~~claim 6, to 9, ~~characterized in that~~wherein the means (16) for screwing into the internal thread (10) are constructed as a luer lock adapter.

11. (New) The injection device (1) of claim 2, wherein the cavity (4) has a cross-sectional area Q , which is orthogonal to the longitudinal axis (2), and that the ratio of the cross sectional areas $q : Q$ is between 1 and 0.01 and preferably between 1 and 0.02.

12. (New) The injection device (1) of claim 2 wherein the cavity (4) has a cross-sectional area Q , which is orthogonal to the longitudinal axis (2) and that the ratio of the cross sectional areas $q : Q$ is between 0.200 and 0.033 and preferably between 0.2 and 0.05.

13. (New) The injection device (1) of claim 6, wherein the diameter of the borehole (9) in the transition segment (22) and the geometry of the internal thread (10) in the connecting piece (8) correspond to those of a luer lock connection.

14. (New) The injection device (1) of claim 7, wherein the diameter of the borehole (9) in the transition segment (22) and the geometry of the internal thread (10) in the connecting piece (8) correspond to those of a luer lock connection.

15. (New) The injection device (1) of claim 7, wherein the means (16) for screwing into the internal thread (10) are constructed as a luer lock adapter.

16. (New) The injection device (1) of claim 9, wherein the means (16) for screwing into the internal thread (10) are constructed as a luer lock adapter.

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